

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 25967

Title: Polyphosphate and associated enzymes as global regulators of stress response and virulence in *Campylobacter jejuni*

Reviewer's code: 02446947

Reviewer's country: Australia

Science editor: Yuan Qi

Date sent for review: 2016-03-27 14:00

Date reviewed: 2016-05-18 10:36

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Over all the review by Kumar et al. is well written and informative. Some suggestions for enhancing clarity: 1) The section "PPKs: role in chicken colonization" would be aided with a table which summarizes the data. Currently it is difficult to keep track of just as numbers in the main body of the text. 2) Table 2 is quite useful in providing a summary of mutants and their phenotypes in the context of poly P metabolism. It would be useful though to enhance figure 1 (or add a new figure) which links mutations in the various Poly P metabolic steps to observed phenotypes. Specific corrections 1) Page 3 line 83, delete "on" and define PPK 2) Page 4, line 99 replace "of human and animal origin" with "which are human and animal pathogens" 3) Page 5, 138, correct to "does not" 4) Page 5, line 141, correct to "including a" 5) Page 6, line 154, correct to "the subatomic" and "the origin of the universe" 6) Page 6, line 156 should this be "ten to one hundred"? 7) Page 7, line 176, delete the greater than sign 8) Page 7, line 199, would help to refer to Figure 1 at the end of the first sentence in this section 9) Page 9, line 248, RpoS should be defined 10) Page 10, line 261, spoT should be defined 11) Page 10, line 285, "speculate" would be a better word to use here than "wonder" 12) Page 11, line



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291, the targets of these antimicrobials should be included 13) Page 11, line 305, in this paragraph what is specifically meant by “naturally competent” and “natural transformation”? 14) Page 12, line 336, should read “The authors” 15) Page 12, line 338, further define AI-2 16) Page 12, line 341, with reference to “several genes”, which ones? 17) Page 13, line 363 should read “in colonization” and replace “as to” with “in” 18) Page 13, line 366 “bursa of” should read “bursa” 19) Page 14, line 377 and 378 should read “in colonization” and replace “as to” with “in” 20) Page 14, line 397, should read “display no or reduced colonization” 21) Page 15, line 433, what are the “several phenotypes”? 22) Page 17, line 483, should read “overlap” 23) Page 17, line 488, should read “the enzymes” 24) Page 19, line 529, should read “vaccine candidates” 25) Page 19, line 548, should read “proteomics” 26) Page 20, line 574, delete extra full stop and need to cite reference with respect to IL-8 work 27) Figure 1 legend, should read “the PhosP/PhosR” and “the high affinity”



ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 25967

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<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Overall, this is a well-written review of the role of polyphosphate and associated enzymes in *Campylobacter jejuni*. Table 2 was a very clear way to present the various data and studies cited in the review. Table 1 is also a nice reference of *Campylobacter* infections by subtype and symptoms. The paper could benefit from some minor structural changes: - In the Poly P Metabolism in *C. jejuni* section, the author names of the articles under review are repeated quite often. It eventually becomes a bit distracting and would be a stronger section if it was re-written slightly to reduce the repetition. - In section PPKs: Role of virulence-associated phenotypes, the reader would benefit from short subheadings if they journal allows it (ABR, Motility, Biofilms, etc). - Line 488 needs a space between the_enzymes - Line 574 has two periods



ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 25967

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<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
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		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The manuscript from Kumar et al. reviewed the literature of poly P in *C. jejuni* stress survival and virulence. They also summarized the associations between different *Campylobacter* species and human diseases. Overall, the paper is clearly written. My main comments are on Table 1. 1. Table 1 is a summary of *Campylobacter* infections in humans. For a table like this, the authors should cite original papers rather than simply take information from another review paper. Please cite original research papers for information included in Table 1. 2. Please ensure that precise information is included in the Tables. For example, in Table 1, it is written that Gut dysbiosis is a risk factor for *C. concisus*, *C. showae*, *C. hominis* et al. human infections? The authors need to provide evidence for this by citing original research papers.